

ABSTRACT OF THE DISCLOSURE

An image processing apparatus is capable of generating distortion-free accurate image data. The image processing apparatus has an image entering unit, an image processor, and a memory. Slice data read by the
5 image entering unit is stored in the memory. The image processor determines whether the slice data stored in the memory is of significance or not. Then, the image processor calculates a moved distance and tilt of the slice data that has been detected as being of significance, and calculates positional coordinates of a reconstructed image area to which the slice data is to
10 be projected, based on the moved distance and tilt of the slice data which have been calculated, and generates reconstructed image data. The generated reconstructed image data is stored in the memory.